

**In the Claims**

Please amend the claims as follows:

1. (Previously presented) An isolated toxin from *Karlodinium micrum*.
2. (Previously presented) The isolated toxin according to claim 1 comprising a member selected from the group consisting of KmTx 1, KmTx 2, KmTx 3, KmTx 4, KmTx 5 and KmTx 6.
3. (Previously presented) The isolated toxin according to claim 1 comprising KmTx 1, wherein the KmTx 1 toxin is eluted at about 22-24 minutes of reversed phase HPLC elution of *Karlodinium micrum*.
4. (Previously presented) The isolated toxin according to claim 1 comprising KmTx 3, wherein the KmTx 3 toxin is eluted at about 16-18 minutes of reversed phase HPLC elution of *Karlodinium micrum*.
5. (Previously presented) The isolated toxin according to claim 1 comprising KmTx 1, wherein the KmTx 1 toxin is eluted at about 22 to 24 minutes of reversed phase HPLC fractions of a concentrated 80% MeOH tC<sub>18</sub> elution of *Karlodinium micrum*.
6. (Previously presented) The isolated toxin according to claim 1 comprising KmTx 3, wherein the KmTx 3 toxin is eluted at about 16-18 minutes of reversed phase HPLC fractions of a concentrated 80% MeOH tC<sub>18</sub> elution of *Karlodinium micrum*.
7. (Previously presented) The isolated toxin according to claim 1 comprising a molecular mass of 1362 daltons.
8. (Previously presented) The isolated toxin according to claim 1 comprising a molecular mass of 1344 daltons.
9. (Previously presented) A method of producing a karlotoxin comprising the steps of: a) culturing *Karlodinium micrum* in a medium suitable for production of toxin; and b) isolating the toxin.

10. (Currently amended) The method according to claim 7 9 comprising a member selected from the group consisting of KmTx 1, KmTx 2, KmTx 3, KmTx 4, KmTx 5 and KmTx 6.
11. (Currently amended) The method according to claim ~~7~~9, wherein the toxin is isolated by separation on a HPLC column.
12. -19 (Cancelled)
20. (Previously presented) A method of inhibiting a *Karlodinium micrum* toxin comprising contacting an antibody which specifically binds said toxin.
21. (Previously presented) The method of claim 20, wherein the toxin is the toxin comprises a member selected from the group consisting of KmTx 1, KmTx 2, KmTx 3, KmTx 4, KmTx 5 and KmTx 6.
22. (Previously presented) The method of claim 20, wherein the toxin is the toxin comprises KmTx 1 and is eluted at about 22-24 minutes of reversed phase HPLC elution of *Karlodinium micrum*.
23. (Previously presented) The method of claim 20, wherein the toxin is the toxin comprises KmTx 3 and is eluted at about 17 - 18 minutes of reversed phase HPLC elution of *Karlodinium micrum*.
24. (Previously presented) An immunoconjugate comprising a *Karlodinium micrum* toxin linked to an antibody.
25. (Previously presented) The immunoconjugate of claim 24, wherein the toxin comprises a member selected from the group consisting of KmTx 1, KmTx 2, KmTx 3, KmTx 4, KmTx 5 and KmTx 6.
26. (Previously presented) The immunoconjugate of claim 25, wherein the antibody is an anti-tumor antibody.

27.-28 (Cancelled) .

29. (Previously presented) A composition comprising a *Karlodinium micrum* toxin.

30. (Currently amended) A The composition according to claim 29, wherein the toxin comprises a member selected from the group consisting of KmTx 1, KmTx 2, KmTx 3, KmTx 4, KmTx 5 and KmTx 6.

31. (Currently amended) A The composition according to claim 29, wherein the toxin comprises KmTx 1 and is eluted at about 22-24 minutes of reversed phase HPLC elution of *Karlodinium micrum*.

32. (Currently amended) A The composition according to claim 29, wherein the toxin comprises KmTx 3 and is eluted at about 17-18 minutes of reversed phase HPLC elution of *Karlodinium micrum*.

33. 34. (Currently amended) A method of treating blooms in an aqueous medium caused by *K. micrum* to reduce mortality rate of fish exposed to the treatment, the method comprising:

introducing an algicidal composition in an effective amount to reduce the level of *K. micrum* in the aqueous medium, wherein the algicidal composition comprises potassium permanganate and does not include copper sulfate.

34.-36. (Cancelled).